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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-01-21-72** **Date: 21/11/2018**
Customer	:	Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15
Agency	:	Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21
Customer's Reference	:	EE/DD/WO/39/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-11-18
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2018	21/11/2018	149.21 X 150.06 X 150.99	22390	8.034	403.2	18.0	18.2
2	Drain Bottom Slab Concrete	M20	14/11/2018	21/11/2018	151.67 X 150.51 X 150.04	22828	8.018	418.5	18.3	
3	Drain Bottom Slab Concrete	M20	14/11/2018	21/11/2018	150.79 X 151.32 X 149.29	22818	8.495	417.4	18.3	

Note:

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-01-21-72 **Date: 12/12/2018**

Customer : Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.

Address : T Dasarhalli Sub Division, BBMP, Bangalore.

Project Name : Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15

Agency : Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21

Customer's Reference : EE/DD/WO/39/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-11-18

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2018	12/12/2018	151.55 X 151.42 X 150.56	22947	8.294	538.4	23.5	22.9
2	Drain Bottom Slab Concrete	M20	14/11/2018	12/12/2018	151.37 X 149.33 X 150.18	22604	8.609	498.0	22.0	
3	Drain Bottom Slab Concrete	M20	14/11/2018	12/12/2018	149.61 X 150.03 X 150.34	22446	8.053	521.8	23.2	

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	CP-RW-2019-01-21-72	**Date: 21-11-18**
Customer	:	Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.	
Address	:	T Dasarhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15	
Agency	:	Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21	
Customer Reference	:	EE/DD/WO/39/18-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	19-11-18	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	19-11-18	
Oven Dry Weight	:	11000	Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	CP-RW-2019-01-21-72	**Date: 21-11-18**
Customer	:	Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.	
Address	:	T Dasarhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15	
Agency	:	Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21	
Customer Reference	:	EE/DD/WO/39/18-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	19-11-18	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	19-11-18	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2019-01-21-72** **Date: 21-11-18**
Customer	:	Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15
Agency	:	Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21
Customer Reference	:	EE/DD/WO/39/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-11-18
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	19-11-18

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-01-21-72** **Date: 21/11/2018**
Customer	:	Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15
Agency	:	Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21
Customer's Reference	:	EE/DD/WO/39/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-11-18
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2018	21/11/2018	149.83 X 149.05 X 151.22	22333	8.998	419.1	18.8	18.7
2	Drain Bottom Slab Concrete	M20	14/11/2018	21/11/2018	150.83 X 150.14 X 151.33	22645	8.189	423.8	18.7	
3	Drain Bottom Slab Concrete	M20	14/11/2018	21/11/2018	149.63 X 150.19 X 150.47	22474	8.738	416.0	18.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-01-21-72 **Date: 12/12/2018**

Customer : Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.

Address : T Dasarhalli Sub Division, BBMP, Bangalore.

Project Name : Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15

Agency : Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21

Customer's Reference : EE/DD/WO/39/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-11-18

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2018	12/12/2018	151.27 X 151.69 X 150.12	22946	8.344	549.4	23.9	23.1
2	Drain Bottom Slab Concrete	M20	14/11/2018	12/12/2018	150.16 X 151.50 X 151.16	22750	8.086	504.0	22.2	
3	Drain Bottom Slab Concrete	M20	14/11/2018	12/12/2018	151.30 X 150.94 X 151.90	22836	8.294	530.6	23.2	

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Agency : Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21

Customer's Reference : EE/DD/WO/39/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-11-18

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2018	21/11/2018	149.95 X 150.99 X 151.99	22640	8.415	412.7	18.2	18.4
2	Drain Bottom Slab Concrete	M20	14/11/2018	21/11/2018	149.57 X 151.56 X 150.52	22668	8.183	414.6	18.3	
3	Drain Bottom Slab Concrete	M20	14/11/2018	21/11/2018	151.31 X 151.47 X 150.72	22919	8.743	426.5	18.6	

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Lab ID : CP-2019-01-21-72 **Date: 12/12/2018**

Customer : Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.

Address : T Dasarhalli Sub Division, BBMP, Bangalore.

Project Name : Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15

Agency : Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21

Customer's Reference : EE/DD/WO/39/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-11-18

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2018	12/12/2018	149.41 X 151.18 X 151.42	22588	8.282	522.0	23.1	23.1
2	Drain Bottom Slab Concrete	M20	14/11/2018	12/12/2018	150.46 X 151.31 X 149.17	22766	8.821	509.4	22.4	
3	Drain Bottom Slab Concrete	M20	14/11/2018	12/12/2018	150.77 X 150.07 X 150.27	22625	8.277	541.9	23.9	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-01-21-72 **Date: 21/11/2018**

Customer : Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.

Address : T Dasarhalli Sub Division, BBMP, Bangalore.

Project Name : Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15

Agency : Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21

Customer's Reference : EE/DD/WO/39/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-11-18

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2018	21/11/2018	149.11 X 150.27 X 150.24	22407	8.780	422.4	18.9	18.5
2	Drain Bottom Slab Concrete	M20	14/11/2018	21/11/2018	150.91 X 150.67 X 149.48	22737	8.939	413.6	18.2	
3	Drain Bottom Slab Concrete	M20	14/11/2018	21/11/2018	150.07 X 151.07 X 151.49	22671	8.540	420.4	18.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-01-21-72 **Date: 12/12/2018**
Customer	:	Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15
Agency	:	Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21
Customer's Reference	:	EE/DD/WO/39/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-11-18
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2018	12/12/2018	149.54 X 151.57 X 150.60	22667	8.169	535.2	23.6	23.3
2	Drain Bottom Slab Concrete	M20	14/11/2018	12/12/2018	149.09 X 149.90 X 149.08	22350	8.049	510.0	22.8	
3	Drain Bottom Slab Concrete	M20	14/11/2018	12/12/2018	151.34 X 150.55 X 149.86	22785	8.517	531.4	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-01-21-72** **Date: 21/11/2018**
Customer	:	Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15
Agency	:	Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21
Customer's Reference	:	EE/DD/WO/39/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-11-18
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2018	21/11/2018	149.63 X 150.45 X 151.15	22511	8.309	407.1	18.1	18.5
2	Drain Bottom Slab Concrete	M20	14/11/2018	21/11/2018	151.71 X 151.36 X 150.88	22963	8.770	427.7	18.6	
3	Drain Bottom Slab Concrete	M20	14/11/2018	21/11/2018	151.45 X 150.28 X 151.14	22759	8.801	429.7	18.9	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-01-21-72 **Date: 12/12/2018**

Customer : Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.

Address : T Dasarhalli Sub Division, BBMP, Bangalore.

Project Name : Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15

Agency : Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21

Customer's Reference : EE/DD/WO/39/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-11-18

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/11/2018	12/12/2018	150.89 X 149.99 X 151.11	22631	8.274	541.2	23.9	23.3
2	Drain Bottom Slab Concrete	M20	14/11/2018	12/12/2018	151.93 X 150.68 X 150.23	22894	8.879	516.1	22.5	
3	Drain Bottom Slab Concrete	M20	14/11/2018	12/12/2018	149.67 X 150.59 X 150.75	22539	8.662	525.1	23.3	

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TEST RESULTS OF STEEL

Lab ID	:	CP-2019-01-21-72	**Date: 08-11-18**
Customer	:	Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.	
Address	:	T Dasarhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15	
Agency	:	Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21	
Customer's Reference	:	EE/DD/WO/39/18-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	07-11-18	
Sample Type	:	Sunvik	
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.	
Date of test:	:	07-11-18	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.393	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.614	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.886	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2019-01-21-72	**Date: 03-11-18**
Customer	:	Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.	
Address	:	T Dasarhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15	
Agency	:	Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21	
Customer's Reference	:	EE/DD/WO/39/18-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	01-11-18	
Sample Type	:	Fine Aggregate	
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption	
Date of test	:	01-11-18	
Total weight taken	:	1000 grams	

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	185	206	20.6	79.4	60-95	75-100	85-100	95-100
4	1.18 mm	211	417	41.7	58.3	30-70	55-90	75-100	90-100
5	600 micron	158	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	236	811	81.1	18.9	5-20	8-30	12-40	15-50
7	150 micron	146	957	95.7	4.3	0-10	0-10	0-10	0-15
8	Pan	43	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-01-21-72** **Date: 03-11-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.42	--
2	Specific Gravity	2.53	--
3	Material finer than 75 micron(%)	3.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-01-21-72** **Date: 03-11-18**
Customer	:	Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15
Agency	:	Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21
Customer Reference	:	EE/DD/WO/39/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-11-18
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-11-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-01-21-72** **Date: 03-11-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.67	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-01-21-72** **Date: 04-11-18**
Customer	:	Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15
Agency	:	Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21
Customer's Reference	:	EE/DD/WO/39/18-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	01-11-18
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-11-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-01-21-72** **Date: 04-11-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.48	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.22	_

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-01-21-72** **Date: 05-11-18**
Customer	:	Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15
Agency	:	Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21
Customer's Reference	:	EE/DD/WO/39/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-11-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	02-11-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.94	_
2	Finess by Air permeablity method (m^2/kg,Min)	285.3	225m^2/kg, Min
3	Density (gm/cc)	3.14	_
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

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CIVIL Pro BANGALORE Sig. Date.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2019-01-21-72 **Date: 30-11-18**
Customer	:	Assistant Executive Engineer, T Dasarhalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Construction of CC Roads and Drains at Sujatha Tent Front Side and Rekha Changappa House Road T.Dasarahalli Ward No.15
Agency	:	Sri.Jagadish K, #3424, 6th Cross Gayathri Nagara, Bangalore-21
Customer's Reference	:	EE/DD/WO/39/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-11-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	02-11-18
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.0N/mm^2	Not less than 53 N/mm^2

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****